EXECUTIVE ORDER U-R-004-0526 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2016	GJDXL09.0313	9.0	Diesel	8000		
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
Injection Recirc	r Cooler, Oxidation Cata n, Electronic Control Mo ulation, Turbocharger, S ction-Urea, Ammonia O	dule, Exhaust Gas selective Catalytic	Pump, Compressor, Generator Set, Other Industrial Equipment			

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
POWER CLASS			NMHC	NOx	NMHC+NOx	co	РМ	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.004	0.10		0.01	0.02			

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this ______ day of March 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

P/c E0#: U-R-004_0526 Attachment: Page 10f1 9/8/16

Engine Model Summary Form

6. Torque (Nm)

7. Fuel Rate:

Manufacturer: Engine category: EPA

John Deere Power Systems

Nonroad Cl Mfr Pro

t Engine Family:	G1DVF08:02.12
Family Name:	450HCD
cess Code:	Running Change

			kW@RPM	mm/stroke@peak kW	(kg/hr)@peak kW	@RPM	mm/stroke@peak	8. Fuel Rate:	Device Per
	 Engine code 	Engine Model	(SAE Gross)	(for diesel only)	(for diesels only)	(SEA Gross)	torque	(kW/hr)@peak torque	SAE J1930
	* 6090HFG06A	6090	345@1800	263,2@1800	72.4@1800	11 7		X /	EGR OC SCRC NH3OC DFITC CAC ECM
3	* *6090HFG06B	6090	300@1500	269.8@1500	61.9@1500	\ /		\ /	EGR OC SCRC NH3OC DFI TO CAC ECM
	* 16090HFG060	6090	326@1800	247.5@1800	68.1@1800	\times		9861 \ 0547 / \$527	EGR OC SCRC NH3OC DFI TC CAC ECM
	*6090HFG06D	6090	300@1500	269,5@1500	61.8@1500	Λ	X	\ /	EGR OC SCRC NH3OC DFI TC CAC ECM
	*6090HFG06E	6090	273@1800	201.3@1800	55.4@1800	- Max	- / N	X	EGR OC SCRC NH3OC DFI TC CAC ECM
	1 6090HFG06F	6090	273@1500	243@1500	55.7@1500				EGR OC SCRC NH3OC DFI TC CAC ECM
	6090HPRNT7	6090	364@1800	277.6@1800	76.4@1800	7		NAMES OF STREET	EGR OC SERC NH3OC ECM DELTC CAC
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5. Fuel Rate:

·** 1987年11月1日 - 1987年11月1日 -

4. Fuel Rate:

9. Emission Control

atings added